PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference LW9107PC	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/KR 2004/003429	(Earliest) Priority Date (day/month/yea. 8 January 2004 (08.01.2004	r) International filing date (day/month/year) 24 December 2004 (24.12.2004)
Applicant	MSUNG ELECTRO-MECHANIC	CS CO., LTD
This international search report has bee according to Article 18. A copy is being	n prepared by this International Searching g transmitted to the International Bureau.	Authority and is transmitted to the applicant
This international search report consists		
It is also accompanied by	a copy of each prior art document cited in	n this report.
language in which it was filed, t	inless otherwise indicated under this item.	e basis of the international application in the
to this Authorit	y (Rule 23.1(b)).	translation of the international application furnished
b. With regard to any nucleot	ide and/or amino acid sequence disclose	d in the international application, see continuation of this first sheet.
2. Certain claims were for	and unsearchable (see continuation of thi	s first sheet)
	cking (see continuation of this first sheet)	
4. With regard to the title,		
the text is approved as su		
the text has been established	shed by this Authority to read as follows:	
,		
5. With regard to the abstract, the text is approved as s	submitted by the applicant.	
	ished, according to Rule 38.2(b), by this A ay, within one month from the date of mail	uthority as it appears in the continuation of this first ling of this international search report, submit
6. With regard to the drawings,	•	2
 a. the figure of the drawings to b 	e published with the abstract is Figure No	·
as suggested by the app	licant.	
as selected by this Auth	nority, because the applicant failed to sugg	est a rigure.
	nority, because this figure better characteri	zes me mvention.
b. none of the figures is to b	e published with the abstract.	

INTERN. IONAL SEARCH REPORT

International application No. PCT/KR 2004/003429

Continuation of first sheet

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

A surface light source device (100) includes a first substrate (110), an electrode (150), a discharge auxiliary layer (112), a fluorescent layer (114) and a second substrate (120). The discharge auxiliary layer (112) includes carbon nanotubes and an oxide. The surface light source device may further include a florescent layer. The surface light source device (100) may have a discharge fluorescent layer including carbon nanotubes, an oxide and a fluorescent material instead of a discharge auxiliary layer (112) and a fluorescent layer (114). Using carbon nanotubes and an oxide in the surface light source device, a discharge firing voltage and a discharge sustaining voltage may be lowered due to a geometric effect of a carbon nanotube and a high yield of secondary electron. Therefore, efficiency of the surface light source device is improved, so that power consumption of an LCD apparatus is decreased and luminance of the LCD apparatus is increased.

INTERN IONAL SEARCH REPORT

International application No. PCT/KR 2004/003429

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H01J 65/04, H01J 61/30, G02F 1/13357

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC': G02F, H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPOCOD, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
А	EP 1 122 759 A2 (SAMSUNG) 8 August 2001 (08.08.2001) figures 3, 9-12, paragraphs 10-14, 19-20, 34-41.	1-4, 9, 10, 12, 13, 14, 16, 17, 19, 22, 23, 26
A	KR2003081866 A (NANOPACIFIC INC) 22 October 2003 (22.10.2003) (abstract).[online] [retrieved on 15.03.2005]. Retrieved from: EPOQUE WPI Database	1, 2, 9, 10, 12, 14, 16, 17, 19, 22, 23, 26
Α	 US 2002/0105259 A1 (KIM) 8 August 2002 (08.08.2002) figures 2-4, 9C, 9D, paragraphs 33-35, 42.	1-3, 9-11, 14, 16-18, 20, 22, 23, 26
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Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed
- "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 16 March 2005 (16.03.2005)

Date of mailing of the international search report 5 April 2005 (05.04,2005)

Name and mailing address of the ISA/AT

Austrian Patent Office Dresdner Straße 87, A-1200 Vienna

Facsimile No. +43 / 1 / 534 24 / 535

Authorized officer

GRONAU E.

Telephone No. +43 / 1 / 534 24 / 320

INTERN IONAL SEARCH REPORT

International application No. PCT/KR 2004/003429

PCT/KR 2004/003429					
C (Continuati	on). DOCUMENTS CONSIDERED TO BE RELEVANT	1			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
A	US 2003/0132711 A1 (YOO et al.) 17 July 2003 (17.07.2003) figures 1-4, 7, paragraphs 8-11, 26-36, 40-44.	1, 9, 14, 16, 22, 26			

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INTERNATI IAL SEARCH REPORT Information on patent family members

rnational application No. PCT/KR 2004/003429

Patent document cited in search report			Publication date	Patent family member(s)		Publication date	
EP	A2	1122759	2001-08-08	JP US KR	A B1 A	2001222944 6346775 2001077686	2001-08-17 2002-02-12 2001-08-20
KR	A	20030818 66	2003-10-22		***************************************	none	
US	A	20020105 259				none	
US	A	20030132 711		***************************************		none	